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(71) Applicant (for all designated States except US): ELEC-  
TRONICS AND TELECOMMUNICATIONS RE-  
SEARCH INSTITUTE [KR/KR]; 161, Gajeong-Dong,  
Yuseong-Gu, Daejeon 305-350 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAN, Seon Ho  
[KR/KR]; Noble House 304, 126-21, Sinseong-Dong,  
Yuseong-Gu, Daejeon 305-345 (KR). YU, Hyun  
Kyu [KR/KR]; Hanbit Apt. 115-406, Eoeun-Dong,

Yuseong-Gu, Daejeon 305-755 (KR). PARK, Mun Yang  
[KR/KR]; Hanmaeul Apt. 109-105, Songgang-Dong,  
Yuseong-Gu, Daejeon 305-503 (KR). KIM, Jong Dae  
[KR/KR]; Daejayuen Apt. 108-2105, Kwanjeo-Dong,  
Seo-Gu, Daejeon 302-724 (KR).

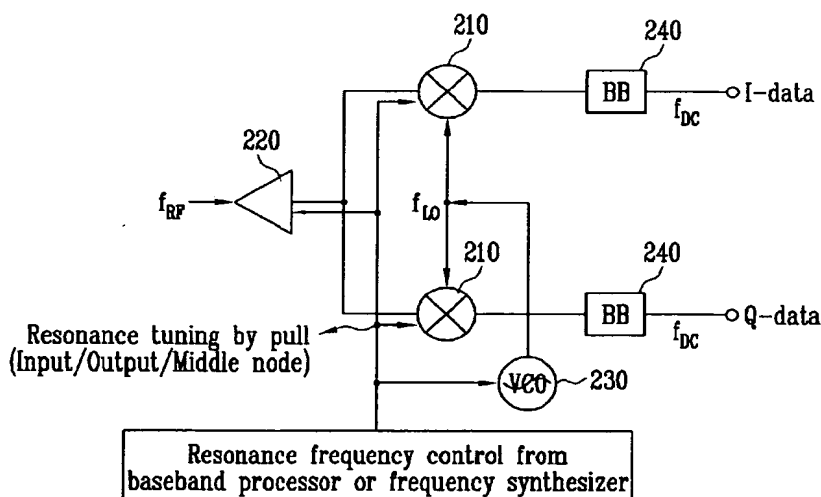
(74) Agent: SHIN, Young Moo; Ace Tower 4th Floor 1-170,  
Soonhwa-Dong, Chung-Gu, Seoul 100-130 (KR).

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(54) Title: DIRECT CONVERSION RF FRONT-END TRANSCEIVER AND ITS COMPONENTS



(57) Abstract: Provided is an RF front-end transceiver having an oscillator for outputting a resonant frequency signal whose frequency is controlled by a frequency control signal provided from a frequency synthesizer or a base band processor; a receive amplifier for amplifying and outputting a receive RF signal; a receive mixer for mixing the receive RF signal amplified and the resonant frequency signal to convert the receive RF signal into a receive base band signal; a transmit mixer for mixing a transmit base band signal and the resonant frequency signal to convert the transmit base band signal into a transmit RF signal; and a transmit amplifier for amplifying and outputting the transmit RF signal, wherein a resonant frequency of at least one of the receive amplifier, the receive mixer, the transmit mixer and the transmit amplifier is controlled by the frequency control signal.

WO 2005/064805 A1

WO 2005/064805 A1



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